

To: Ed Martin Date: 18 September 1962  
From: W. C. McFadden  
Subject: Report #18, Job 82, Type III, C & J Equipment Co.  
Enclosure: Management Information Report No. 18

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Type III

### 1. Period of Report

This report covers work done from 17 August 1962 through 14 September 1962.

### 2. Status and Schedule

Further engineering tests have been conducted during this period. The data obtained during the Vibration Tests in the vehicle is being studied. A vibration stand has been constructed so that the equipment can be vibrated "in house" and additional data obtained on isolator performance.

The equipment has been collimated and checked out in preparation for flight tests in the research vehicle.

### 3. Technical Program Discussion

#### 3.1 Engineering Tests

Engineering tests have been continued. New motors have been installed in the shutter and tests indicate satisfactory operation at the higher rate. Additional tests and adjustments have been made on the film transport system and the oblique drive system. The platen servo system has been tested and the equipment collimated under "Manual Control" conditions.

#### 3.2 Vibration Tests

The equipment test stand has been modified to accept the vehicle attach fittings. Provision has been made to put essentially vertical vibration forces into the two side attach fittings so that the equipment as supported by the isolators and attach fittings can be vibrated through the frequency range of 6.5 to 130 cycles per second. While it is impossible to exactly duplicate the environmental conditions encountered in the vehicle, it is believed that the test stand will be of significant value in evaluating isolator performance.

#### 3.3 Thermal Tests

The thermal tests have been unavoidably delayed due to the prior scheduling of the Vibration tests in the vehicle and the flight tests in the research vehicle.

25 YEAR RE-REVIEW

**3.4 Flight Tests in Research Vehicle**

The equipment has been checked out and readied for flight test in the research vehicle scheduled to begin the week of 27 September 1962.

**4. Program for the Coming Period**

Conduct flight test in the research vehicle.

Continue the Engineering Tests and evaluation and prepare for Thermal Tests as allowed by the flight test schedule.



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